

10/009896

JC1S Rec'd PCT/PTO 14 DEC 2001

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Tomoo MIZUMURA, et al.

PCT Appln. No.: PCT/JP01/01742

Confirmation No.: Not Yet Assigned

Group Art Unit: Not Yet Assigned

Filed: December 14, 2001

Examiner: Not Yet Assigned

For: IRREGULAR CROSS-SECTIONAL POLYESTER FILAMENTS AND YARN AND
FABRIC CONTAINING SAME

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Please amend the paragraph bridging pages 11 and 12 as follows:

The above-mentioned requirement (2) defines a ratio of the width of the flat projection part (B) to the width of the triangular part (A), and the ratio is important to cause the resultant irregular cross-sectional polyester filaments and the yarns and fabrics containing the same to obtain a good balance of the creaky touch with the softness and the bulkiness thereof. If the ratio h_2/h_1 is less than 3.0, the resultant irregular cross-sectional polyester filaments and the yarns and the fabrics containing the same exhibit an unsatisfactory bulkiness. If the ratio is more than 10.0, the melt-spinning procedure for producing the irregular cross-sectional polyester filaments exhibits an insufficient stability and the resultant filaments have uneven quality. The ratio h_2/h_1 is preferably in the range of from 4.0 to 7.0.

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PRELIMINARY AMENDMENT
Attorney Docket No.: Q67730

IN THE CLAIMS:

Please enter the following amended claims:

9. The combined polyester filament yarn as claimed in claim 8, wherein a difference in shrinkage in boiling water between the polyester irregular cross-sectional filaments for the filament component having the lowest shrinkage in boiling water, and the polyester filaments contained in the filament component having a high shrinkage in boiling water and having a highest shrinkage in boiling water, is 4 to 10%.

10. The combined polyester filament yarn as claimed in claim 8 or 9, wherein the polyester contained in the polyester filaments having a highest shrinkage in boiling water is a polyethylene terephthalate isophthalate and the content of isophthalic acid in the dicarboxylic acid component of the polyester is 5 to 15 molar%.

12. A polyester filament fabric comprising at least one type of yarn selected from the polyester filament yarn as claimed in claim 6 and the combined polyester filament yarn as claimed in any of claims 8 to 11, and having a silk-like hand.

IN THE ABSTRACT:

Please delete the present Abstract of the Disclosure and replace it with the following new Abstract of the Disclosure.

PRELIMINARY AMENDMENT
Attorney Docket No.: Q67730

ABSTRACT

Irregular cross-sectional filaments made from a polyester and yarns and fabrics comprising the filaments, the cross-sectional profile of which filaments has a triangular part (A) and a flat projection part (B) connected to an angular portion of the triangular part and extending therefrom in a flat form, and satisfies the requirements (1) and (2):

$$0.7 \leq (L_1/L_2) \leq 3.0 \quad (1)$$

and

$$3.0 \leq (h_2/h_1) \leq 10.0 \quad (2)$$

in which L_1 represents a distance between a middle point of a connection line drawn between two intersecting points of a contour line of the part (A) with a contour line of the part (B), and a projection end point of the part (B); L_2 represents a distance between a middle point of the connection line between the part (A) and the part (B), and a middle point of a side line of the part (A) facing the connection line; h_1 represents a length of the connection line; and h_2 represents a largest width of the part (A) in the direction at right angles to the longitudinal direction of the part (B).

PRELIMINARY AMENDMENT
Attorney Docket No.: Q67730

REMARKS

Entry and consideration of this Amendment is respectfully requested.

Respectfully submitted,

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F O R M A T * S I G N E D O F F

PRELIMINARY AMENDMENT
Attorney Docket No.: Q67730

APPENDIX

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

The specification is changed as follows:

The paragraph bridging pages 11 and 12:

The above-mentioned requirement (2) defines a ratio of the width of the flat projection part (B) to the width of the triangular part (A), and the ratio is important to cause the resultant irregular cross-sectional polyester filaments and the yarns and fabrics containing the same to obtain a good balance of the creaky touch with the softness and the bulkiness thereof. If the ratio $h_2/h_1h_1/h_2$ is less than 3.0, the resultant irregular cross-sectional polyester filaments and the yarns and the fabrics containing the same exhibit an unsatisfactory bulkiness. If the ratio is more than 10.0, the melt-spinning procedure for producing the irregular cross-sectional polyester filaments exhibits an insufficient stability and the resultant filaments have uneven quality. The ratio $h_2/h_1h_1/h_2$ is preferably in the range of from 4.0 to 7.0.

IN THE CLAIMS:

The claims are amended as follows:

9. The combined polyester filament yarn as claimed in claim 87, wherein a difference in shrinkage in boiling water between the polyester irregular cross-sectional filaments for the filament component having the lowest shrinkage in boiling water, and the polyester filaments contained in the filament component having a high shrinkage in boiling water and having a highest shrinkage in boiling water, is 4 to 10%.

10. The combined polyester filament yarn as claimed in claim 8 or 97 or 8, wherein the polyester contained in the polyester filaments having a highest shrinkage in boiling water is a polyethylene terephthalate isophthalate and the content of isophthalic acid in the dicarboxylic acid component of the polyester is 5 to 15 molar%.

PRELIMINARY AMENDMENT
Attorney Docket No.: Q67730

12. A polyester filament fabric comprising at least one type of yarn selected from the polyester filament yarn as claimed in claim 6 and the combined polyester filament yarn as claimed in any of claims 8 to 117 to 14, and having a silk-like hand.

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